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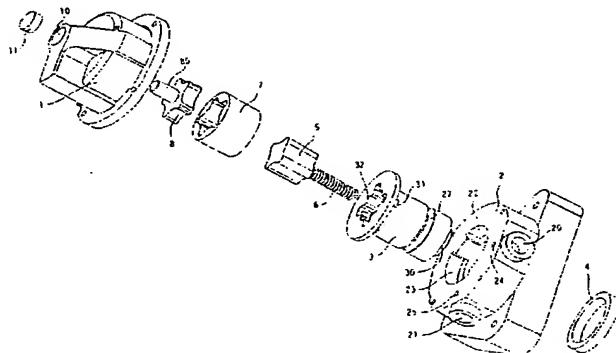
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(54) Title: INTERNAL GEAR MACHINE WITH VARIABLE CAPACITY



(57) Abstract: A fluidic machine having a fixed body (1,2), an external orbital member (7) which is rotatable around a first rotational axis and has internal gear teeth comprising a first teeth number, a transmission member (3) rotatable around a second rotational axis not coincident with the first rotational axis, an internal orbital member (5) supported by the transmission member (3), having external gear teeth comprising a second teeth number different from the first teeth number and meshing with the internal gear teeth of the external orbital member (7), thus determining among the gear teeth of the two orbital members (5,7) spaces whose volume is variable during the rotation. According to the invention, one of the orbital members (5,7) is mounted axially displaceable and it is pushed by an elastic push member (6) in the direction producing a more extended engagement with the other orbital member (7,5), and a piston (8), which is mounted displaceable within the non-axially displaceable orbital member and rests against the axially displaceable orbital member, is subjected, on the side opposite the axially displaceable orbital member, to the pressure of the high pressure connection (21), whereby the axially displaceable orbital member is pushed by the pressure of the high pressure connection (21) to withdraw against the action of the elastic push means (6), within the supporting part, this latter along with the piston delimiting the operatively active portion of the two mutually meshing orbital members (5,7), namely the swept volume of the fluidic machine, this swept volume decreasing as the pressure of the high pressure connection increases.

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